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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,457	08/29/2001	Jin-Oh Kwag	6192.0218.AA	5066
75	590 05/03/2005		EXAMINER	
McGuireWoods LLP			RICHARDS, N DREW	
1750 Tysons Bl Sutie 1800	lvd		ART UNIT	PAPER NUMBER
McLean, VA	22102		2815	
			DATE MAILED: 05/03/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/940,457	KWAG ET AL.					
Office Action Summary	Examiner	Art Unit					
	N. Drew Richards	2815					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence addre	ess				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a r ply within the statutory minimum of thin I will apply and will expire SIX (6) MON te, cause the application to become AE	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this common BANDONED (35 U.S.C. § 133).	nunication.				
Status							
1) Responsive to communication(s) filed on 11 A	April 2005.						
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.						
3) Since this application is in condition for allowed	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.). 11, 453 O.G. 213.					
Disposition of Claims							
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 							
5) Claim(s) 5,6 and 8 is/are allowed.	awii iioiii consideration.						
6)⊠ Claim(s) <u>1-4 and 7</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examin	ner.						
10)⊠ The drawing(s) filed on 29 August 2001 is/are	: a)□ accepted or b)⊠ ob	jected to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ction is required if the drawing	(s) is objected to. See 37 CFR	1.121(d).				
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached	d Office Action or form PTO-	152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea 	nts have been received. nts have been received in A ority documents have been	pplication No	age				
* See the attached detailed Office action for a lis Attachment(s)	, , , , , , , , , , , , , , , , , , , ,	received.					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s	s)/Mail Date nformal Patent Application (PTO-15	52)				
Paper No(s)/Mail Date	6) Other:	* *	•				

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the common electrode as claimed must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. (U.S. Patent No. 6,469,764 B1).

Kim et al. teach a panel for a liquid crystal display in figures 2 and 3 for example. Kim et al. teach an insulating substrate 20, a first wire 21 formed on the insulating substrate 20, a second wire 22 intersecting and insulated from the first wire 21 as taught on column 6 lines 49-53, a pixel area defined by the intersecting of the first wire 21 and the second wire 22, a pixel electrode 25 provided in the pixel area, a domain-defining member provided over the insulating substrate and dividing the pixel area into a plurality of domains, an opaque shading film 24 formed over the insulating substrate and covering a texture around the domain defining member, and a common electrode 210 formed on the insulating substrate 20 or another substrate facing the insulating substrate. The domain-defining member is the projections 25b of the pixel electrode and the openings formed between projections 25b. The shading film overlaps the domain-defining member at least in part. The shading film covers a portion of the domain-defining member, since the shading film outlines and covers a portion of the domain-defining member it also covers the texture around the domain-defining member.

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The shading film 24 is opaque as it is taught as being formed of Cr, Al or Mo which are opaque metals on column 9 lines 3-7.

Kim et al. do not teach the pixel electrode being transparent. However, Official Notice is taken that it is well-known and obvious to one of ordinary skill in the art at the time of the invention, to form the pixel electrode of a transparent material. The pixel electrode is commonly formed of a transparent material to allow a greater amount of light to pass through the layer to increase the brightness of the pixel and to improve an effective aperture ratio. Thus, it would have been obvious to one of ordinary skill in the art to form the pixel electrode of a transparent material.

With regard to claim 2, the domain-defining member comprises projections 25b projecting outward from pixel electrode 25.

With regard to claim 3, the pixel electrode has an opening pattern between sections 25b and the domain-defining member comprises the opening pattern.

With regard to claim 4, the domain-defining member comprises the projections and openings of the pixel electrode.

With regard to claim 7, an outline of a portion of the domain-defining member overlapping the shading film is encircled by an outline of the shading film.

Allowable Subject Matter

4. Claims 5, 6 and 8 are allowed.

Response to Arguments

5. Applicant's arguments filed 3/8/05 have been fully considered but they are not persuasive.

Applicant has argued that claim 1 as amended clearly states that the opaque shading film and the common electrode are two different elements and this is not taught by Kim. This is not persuasive as Kim teaches an opaque shading film 24 and a common electrode 210, thus teaching the limitations as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Drew Richards whose telephone number is (571) 272-1736. The examiner can normally be reached on Monday-Friday 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N. Drew Richards

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